```
=> d his

     (FILE 'HOME' ENTERED AT 15:33:42 ON 11 OCT 2005)
               SET COST OFF

     FILE 'HCAPLUS' ENTERED AT 15:33:52 ON 11 OCT 2005
L1             1 S US20020155991/PN OR (US2002-086451# OR FR2001-2979)/AP,PRN
                 E PHILIPPE M/AU
L2           326 S E3-E5,E25-E27
                 E PHILIPE M/AU
                 E PHILLIPPE M/AU
L3            14 S E3-E5,E8
                 E PHILLIPE M/AU
                 E BENARD S/AU
L4            15 S E3,E7
L5          4933 S (OREAL? OR LOREAL? OR L()OREAL?)/PA,CS
               SEL RN L1

     FILE 'REGISTRY' ENTERED AT 15:36:07 ON 11 OCT 2005
L6             8 S E1-E8
               SEL RN 5-8
L7             4 S L6 NOT E9-E12
L8             3 S (D-TYROSINE OR L-TYROSINE OR DL-TYROSINE)/CN
               SEL RN
L9           335 S E13-E15/CRN
L10          146 S L9 AND PMS/CI
L11            1 S L10 AND CH4O
L12           43 S C3H7NO2 AND L10
L13            2 S L12 NOT ALANINE
L14            4 S L10 AND C2H5NO2
L15            6 S L10 AND C9H11NO3 AND 1/NC
L16           43 S L10 AND 2/NC
L17           54 S L10 NOT L11-L16
               E (C9H9NO2)/MF
L18           17 S E5
               SEL RN 14 15 17
L19            3 S E1-E3
               E (C9H9NO2)/MF
L20            2 S E6,E7
L21           12 S L11,L13,L15,L19

     FILE 'HCAPLUS' ENTERED AT 15:53:55 ON 11 OCT 2005
L22          265 S L21
L23            4 S L22 AND L1-L5

=> fil reg
FILE 'REGISTRY' ENTERED AT 15:54:33 ON 11 OCT 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   10 OCT 2005  HIGHEST RN 864908-12-3
DICTIONARY FILE UPDATES:  10 OCT 2005  HIGHEST RN 864908-12-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005
```

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d ide can tot l21

L21 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 462117-51-7 REGISTRY
ED Entered STN: 17 Oct 2002
CN L-Tyrosine, homopolymer, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3)x . C H4 O**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 67-56-1
CMF C H4 O

H_3C-OH

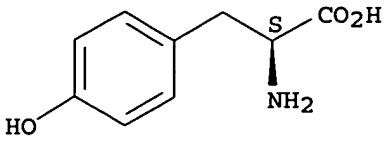
CM 2

CRN 25619-78-7
CMF (C9 H11 N O3)x
CCI PMS

CM 3

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



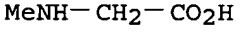
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L21 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 457625-05-7 REGISTRY
ED Entered STN: 01 Oct 2002
CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3 . C6 H14 N2 O2 . C3 H7 N O2)x**
CI **PMS**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

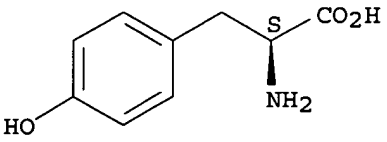
CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 60-18-4
CMF C9 H11 N O3

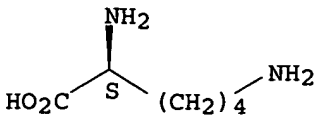
Absolute stereochemistry. Rotation (-).



CM 3

CRN 56-87-1
CMF C6 H14 N2 O2

Absolute stereochemistry.



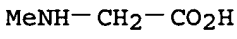
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L21 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 457625-04-6 REGISTRY
ED Entered STN: 01 Oct 2002
CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3 . C3 H7 N O2)x**
CI **PMS**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

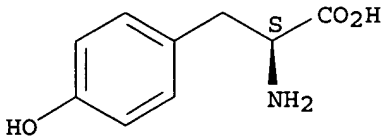
CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

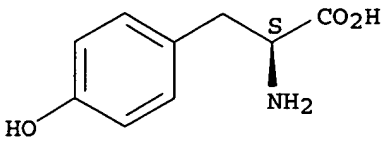
L21 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 142847-49-2 REGISTRY
ED Entered STN: 07 Aug 1992
CN L-Tyrosine, hexamer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3)6**
CI **PMS**
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:252981

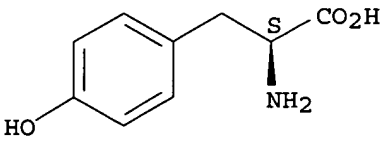
REFERENCE 2: 117:90965

L21 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 142847-48-1 REGISTRY
ED Entered STN: 07 Aug 1992
CN L-Tyrosine, trimer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3)3**
CI **PMS**
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



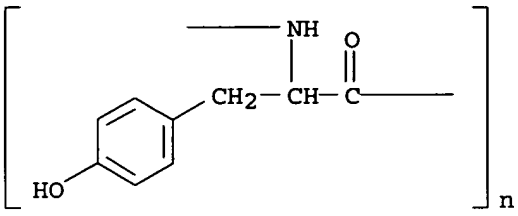
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:90965

L21 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN **32109-39-0** REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[(1R)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], D- (8CI)
MF (C9 H9 N O2)n

CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



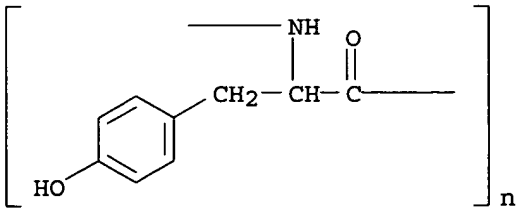
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:71444

REFERENCE 2: 67:52214

L21 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN **31724-37-5** REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], DL- (8CI)
MF (C9 H9 N O2)n
CI PMS
PCT Polyamide
LC STN Files: ANABSTR, CA, CAPLUS, MEDLINE

RELATED POLYMERS AVAILABLE WITH POLYLINK



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

REFERENCE 2: 66:74411

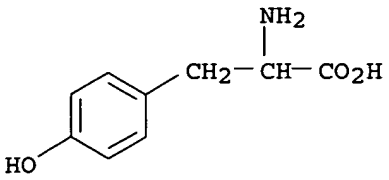
L21 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 31630-26-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tyrosine, DL-, peptides (8CI) (CA INDEX NAME)

OTHER NAMES:
CN Poly-DL-tyrosine
MF **(C9 H11 N O3)x**
CI **PMS**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-03-6
CMF C9 H11 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

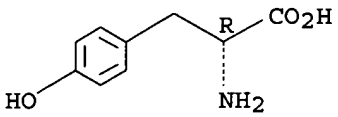
L21 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 30704-25-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN D-Tyrosine, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tyrosine, D-, peptides (8CI)
OTHER NAMES:
CN Poly-D-tyrosine
FS STEREOSEARCH
MF **(C9 H11 N O3)x**
CI **PMS**
PCT Polyamide, Polyamide formed
LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, MSDS-OHS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-02-5
CMF C9 H11 N O3

Absolute stereochemistry.



4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:65865

REFERENCE 2: 117:43790

REFERENCE 3: 75:71444

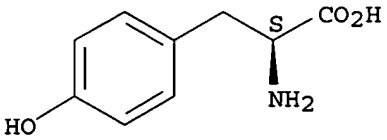
REFERENCE 4: 67:52214

L21 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 30442-80-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN L-Tyrosine, dimer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tyrosine, L-, dimer (8CI)
FS STEREOSEARCH
DR 27476-39-7
MF **(C9 H11 N O3)2**
CI **PMS**
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:109944

REFERENCE 2: 117:90965

REFERENCE 3: 74:150934

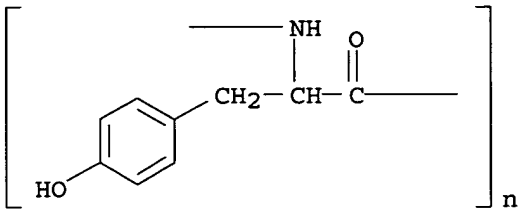
REFERENCE 4: 68:75092

REFERENCE 5: 66:103159

L21 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN **25667-16-7** REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], L- (8CI)
CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], (S)-
OTHER NAMES:
CN L-Tyrosine polymer, SRU
CN Poly(L-tyrosine), SRU
CN Polytyrosine
CN Polytyrosine, SRU

DR 26634-77-5, 439295-29-1
MF (C9 H9 N O2)n
CI PMS
PCT Polyamide
LC STN Files: BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

192 REFERENCES IN FILE CA (1907 TO DATE)
22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:286003

REFERENCE 2: 143:281777

REFERENCE 3: 143:235397

REFERENCE 4: 143:60253

REFERENCE 5: 143:48209

REFERENCE 6: 143:22438

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:246307

L21 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25619-78-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tyrosine, L-, peptides (8CI)
OTHER NAMES:
CN L-Tyrosine polymer
CN Poly(L-tyrosine)
CN Polytyrosine
CN Tyrosine homopolymer
FS STEREOSEARCH
MF **(C9 H11 N O3)x**

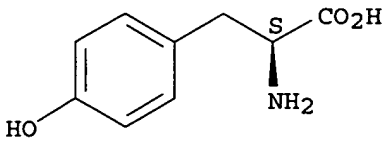
CI **PMS, COM**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CIN, CSCHEM, DIOGENES, EMBASE, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

245 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
245 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777

REFERENCE 2: 143:235397

REFERENCE 3: 143:60253

REFERENCE 4: 143:48209

REFERENCE 5: 143:22438

REFERENCE 6: 143:3528

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:356632

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 15:54:41 ON 11 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Oct 2005 VOL 143 ISS 16
FILE LAST UPDATED: 10 Oct 2005 (20051010/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot

L23 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:693115 HCAPLUS
DN 137:221793
ED Entered STN: 13 Sep 2002
TI Antiwrinkle cosmetic composition containing a derivative of polyamino acids,
IN **Philippe, Michel**; **Benard, Sylvie**
PA **L'Oreal**, Fr.
SO Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DT Patent
LA French
IC ICM A61K007-48
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 34
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	EP 1238655	A1	20020911	EP 2002-290454	20020225	<--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
	FR 2821550	A1	20020906	FR 2001-2979	20010305	<--
	FR 2821550	B1	20040423			
	CA 2374147	AA	20020905	CA 2002-2374147	20020304	<--
	US 2002155991	A1	20021024	US 2002-86451	20020304	<--
	JP 2002255732	A2	20020911	JP 2002-59518	20020305	<--
PRAI	FR 2001-2979	A	20010305	<--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
EP 1238655	ICM	A61K007-48	
US 2002155991	NCL	514/002.000	<--

AB Antiwrinkle cosmetics containing polyamino acids are prepared (Markush structure given). N-carboxyanhydride tyrosine 20, sodium methylate in methanol 0.51 g, and THF 200 mL were mixed and heated for 6 h at 60° to obtain a polyamino acid (yield 96%). Formulation of an antiwrinkle cream containing 7% of above polyamino acid is disclosed.
ST polyamino acid skin wrinkle cosmetic
IT DNA
Lactalbumins
Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(antiwrinkle cosmetic composition containing derivative of polyamino acids,)
IT Cosmetics
(creams, wrinkle-preventing; antiwrinkle cosmetic composition containing derivative
of polyamino acids,)
IT Polyamides, biological studies
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(poly(amino acids); antiwrinkle cosmetic composition containing derivative of
polyamino acids,)
IT Proteins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soybean; antiwrinkle cosmetic composition containing derivative of polyamino
acids,)
IT Cosmetics
(wrinkle-preventing; antiwrinkle cosmetic composition containing derivative of
polyamino acids,)
IT **462117-51-7P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiwrinkle cosmetic composition containing derivative of polyamino acids)
IT 457625-03-5P **457625-04-6P 457625-05-7P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiwrinkle cosmetic composition containing derivative of polyamino acids,)
IT 56-87-1, Lysine, reactions 124-41-4, Sodium methylate 3415-08-5
5840-76-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(antiwrinkle cosmetic composition containing derivative of polyamino acids,)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Bakhoo, M; US 5629282 A 1997 HCAPLUS
(2) Gibbons, W; GB 2217319 A 1989 HCAPLUS
(3) Lion Corp; DE 3724460 A 1988 HCAPLUS
(4) Th Goldschmidt Ag; EP 0958811 A 1999 HCAPLUS
(5) Th Goldschmidt Ag; EP 0959092 A 1999 HCAPLUS
(6) Unilever Plc; WO 9937279 A 1999 HCAPLUS
IT **462117-51-7P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiwrinkle cosmetic composition containing derivative of polyamino acids)
RN 462117-51-7 HCAPLUS
CN L-Tyrosine, homopolymer, methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

H_3C-OH

CM 2

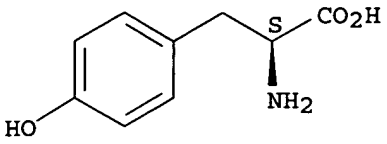
CRN 25619-78-7

CMF (C9 H11 N O3)x
CCI PMS

CM 3

CRN 60-18-4
CMF C9 H11 N O3

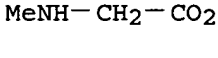
Absolute stereochemistry. Rotation (-).



IT **457625-04-6P 457625-05-7P**
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiwrinkle cosmetic composition containing derivative of polyamino acids,)
RN 457625-04-6 HCAPLUS
CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)

CM 1

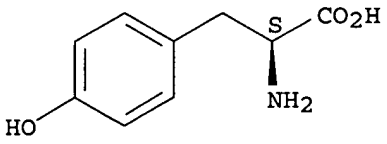
CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 60-18-4
CMF C9 H11 N O3

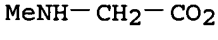
Absolute stereochemistry. Rotation (-).



RN 457625-05-7 HCAPLUS
CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)

CM 1

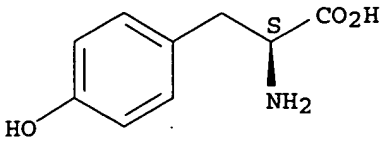
CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 60-18-4
CMF C9 H11 N O3

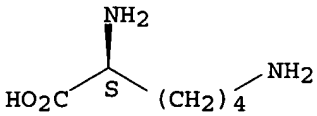
Absolute stereochemistry. Rotation (-).



CM 3

CRN 56-87-1
CMF C6 H14 N2 O2

Absolute stereochemistry.



L23 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:336742 HCAPLUS
DN 122:114632
ED Entered STN: 07 Feb 1995
TI Preparation of a melanin pigment with a small grain size and its use in cosmetics
IN Giacomoni, Paolo; Marrot, Laurent; Mellul, Myriam; Colette, Annick
PA **Oreal S. A., Fr.**
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DT Patent
LA French
IC ICM C09B067-54
ICS A61K007-00; A61K007-42; A61K007-13
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 41
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9425531	A1	19941110	WO 1994-FR467	19940426
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2704554	A1	19941104	FR 1993-4960	19930427
	FR 2704554	B1	19950713		
	CA 2139115	AA	19941110	CA 1994-2139115	19940426
	EP 647255	A1	19950412	EP 1994-914441	19940426
	EP 647255	B1	19991215		
	R: DE, ES, FR, GB, IT				
	JP 07508554	T2	19950921	JP 1994-523952	19940426

PRAI FR 1993-4960 A 19930427
WO 1994-FR467 W 19940426

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9425531	ICM	C09B067-54
	ICS	A61K007-00; A61K007-42; A61K007-13
WO 9425531	ECLA	A61K007/42P10; A61K007/48Z3B; A61K008/41F; A61Q005/10; C09B067/00S
FR 2704554	ECLA	A61K007/42P10; A61K007/48Z3B; A61K008/41F; A61Q005/10; C09B067/00S

OS MARPAT 122:114632

AB A melanin pigment is prepared with a very small grain size, 100% of the particles having a grain size <1 μm, for use in cosmetic compns. and in hair dyeing. The process consists in solubilizing a natural or synthetic melanin in an aqueous medium containing ≥1 alkalinizing agent and/or ≥1 sequestering agent and in precipitating the solubilized melanin by adding ≥1 alkaline earth metal salt. Thus, a melanin produced by oxidative polymerization of 5,6-dihydroxyindole was solubilized by stirring in 0.1N NaOH for 24 h and precipitated by adding MgCl2. This precipitate (mean particle size 350 nm) 5 was formulated with ethoxylated laurylsorbitan 1.5, propylene glycol 5.0, poly(vinyl alc.) 20.0, ultramarine 20.0, EtOH 5.0, preservative 5.0, and water to 100.0 g for use as an eye liner.

ST melanin prepn cosmetic; hair dye melanin

IT Hair
Sepiidae
(melanin from; preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics
(preparation of melanin pigment with small grain size for use in cosmetics)

IT Melanins
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of melanin pigment with small grain size for use in cosmetics)

IT Sequestering agents
(solubilizers; preparation of melanin pigment with small grain size for use in cosmetics)

IT Bases, uses
RL: MOA (Modifier or additive use); USES (Uses)
(solubilizers; preparation of melanin pigment with small grain size for use in cosmetics)

IT Hair preparations
(dyes, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics
(eye liners, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics
(mascaras, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics
(nail lacquers, preparation of melanin pigment with small grain size for use in cosmetics)

IT Alkaline earth compounds
RL: TEM (Technical or engineered material use); USES (Uses)
(salts, precipitants; preparation of melanin pigment with small grain size for use in cosmetics)

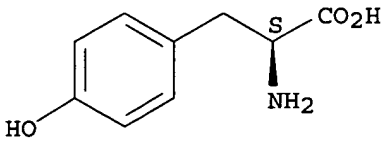
IT 7786-30-3, Magnesium chloride, uses 10043-52-4, Calcium chloride, uses
RL: TEM (Technical or engineered material use); USES (Uses)

(precipitant; preparation of melanin pigment with small grain size for use in cosmetics)
IT **25619-78-7P**, Tyrosine homopolymer 25656-67-1P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of melanin pigment with small grain size for use in cosmetics)
IT 60-00-4, EDTA, uses 67-43-6, DTPA 71-00-1, Histidine, uses 77-92-9, Citric acid, uses 1310-73-2, Sodium hydroxide, uses 1429-50-1, Ethylenediaminetetramethylenephosphonic acid 160728-82-5
RL: MOA (Modifier or additive use); USES (Uses)
(solubilizer; preparation of melanin pigment with small grain size for use in cosmetics)
IT **25619-78-7P**, Tyrosine homopolymer
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of melanin pigment with small grain size for use in cosmetics)
RN 25619-78-7 HCAPLUS
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



L23 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1991:171043 HCAPLUS
DN 114:171043
ED Entered STN: 03 May 1991
TI Cosmetic and pharmaceutical foams
IN Griat, Jacqueline; Ayache, Liliane
PA **Oreal S. A., Fr.**
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA French
IC ICM A61K007-00
ICS A61K009-127
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 382619	A1	19900816	EP 1990-400307	19900205
EP 382619	B1	19920506		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
AT 75600	E	19920515	AT 1990-400307	19900205
ES 2016788	T3	19930616	ES 1990-400307	19900205
US 5171577	A	19921215	US 1990-474399	19900206
CA 2009607	AA	19900809	CA 1990-2009607	19900208
AU 9049170	A1	19900816	AU 1990-49170	19900208

AU 619077 B2 19920116
JP 03020214 A2 19910129 JP 1990-28633 19900209
PRAI LU 1989-87449 A 19890209
EP 1990-400307 A 19900205

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 382619	ICM	A61K007-00
	ICS	A61K009-127
US 5171577	NCL	424/450.000; 264/004.600; 424/047.000; 424/065.000; 424/073.000; 424/076.300; 424/094.300; 424/283.100; 424/401.000; 424/405.000; 424/420.000; 424/750.000; 424/758.000; 424/764.000; 424/765.000; 424/776.000; 514/945.000

OS MARPAT 114:171043

AB The title foam comprises a stabilized dispersion of niosomes and a propellant. A niosome dispersion was made of 3-(hexadecyloxy)propane-1,2-diol 3.6, cholesterol 3.6, palmitic acid collagen derivative 0.8, Me p-hydroxybenzoate 0.3, glycerin 3.0, and water 35.5g. Sesame oil 15 and perfume 0.4g was added to the above niosome dispersion, followed by the addition of Carbopol 940 0.4, triethanolamine 0.4, and water 37.0 g. A cosmetic foam contained above composition 70, and a mixture of propellant containing
butane, propane, isobutane (25:20:55) 30%.

ST pharmaceutical cosmetic foam niosome dispersion

IT Antiperspirants
Astringents
Deodorants
Perfumes and Essences
(cosmetic foams containing)

IT Bactericides, Disinfectants, and Antiseptics
Coloring materials
Fungicides and Fungistats
Oxidizing agents
Reducing agents
Albumins, biological studies
Alcohols, biological studies
Amines, biological studies
Corn oil
Esters, biological studies
Glycols, biological studies
Lipoproteins
Polyamides, biological studies
Polyethers, biological studies
Quaternary ammonium compounds, biological studies
Retinoids
Siloxanes and Silicones, biological studies
Soybean oil
Sunflower oil
RL: BIOL (Biological study)
(cosmetic or pharmaceutical foams containing)

IT Antibiotics
Inflammation inhibitors
Vaccines
Enzymes
Hormones
Vitamins
RL: BIOL (Biological study)
(pharmaceutical foams containing)

IT Alcohols, esters

RL: BIOL (Biological study)
(amino, esters, cosmetic or pharmaceutical foams containing)
IT Oils, glyceridic
RL: BIOL (Biological study)
(borage seed, cosmetic or pharmaceutical foams containing)
IT Cosmetics
(depilatories, foams containing)
IT Aldehydes, biological studies
RL: BIOL (Biological study)
(di-, cosmetic or pharmaceutical foams containing)
IT Alcohols, esters
RL: BIOL (Biological study)
(fatty, esters, cosmetic or pharmaceutical foams containing)
IT Amines, compounds
RL: BIOL (Biological study)
(fatty, ethoxylated, cosmetic or pharmaceutical foams containing)
IT Cosmetics
Pharmaceutical dosage forms
(foams, niosomes in)
IT Oils, glyceridic
RL: BIOL (Biological study)
(grape seed, cosmetic or pharmaceutical foams containing)
IT Hair preparations
(growth stimulants, foams containing)
IT Hydrocarbons, biological studies
RL: BIOL (Biological study)
(halo, cosmetic or pharmaceutical foams containing)
IT Collagens, compounds
Gelatins, compounds
Lactalbumins
RL: BIOL (Biological study)
(hydrolyzates, cosmetic or pharmaceutical foams containing)
IT Steroids, biological studies
RL: BIOL (Biological study)
(hydroxy, cosmetic or pharmaceutical foams containing)
IT Oils, glyceridic
RL: BIOL (Biological study)
(macadamia nut, cosmetic or pharmaceutical foams containing)
IT Collagens, compounds
RL: BIOL (Biological study)
(reaction products, with palmitic acid, cosmetic or pharmaceutical foams containing)
IT Oils, glyceridic
RL: BIOL (Biological study)
(sesame, cosmetic or pharmaceutical foams containing)
IT Sunburn and Suntan
(sunscreens, cosmetic foams containing)
IT Sunburn and Suntan
(suntanning agents, cosmetic foams containing)
IT Lactalbumins
RL: BIOL (Biological study)
(α-, cosmetic or pharmaceutical foams containing)
IT 50-70-4, D-Glucitol, biological studies 56-81-5, 1,2,3-Propanetriol, biological studies 56-81-5D, 1,2,3-Propanetriol, C6-8 esters 56-82-6, Glyceraldehyde 57-10-3D, Palmitic acid, reaction products with collagens 87-89-8, Inositol 96-26-4, Dihydroxy acetone 98-79-3, Pyrrolidone carboxylic acid 98-79-3D, Pyrrolidone carboxylic acid, salts 115-77-5, biological studies 311-89-7, Perfluorotributylamine 6145-69-3 7664-38-2D, Phosphoric acid, esters with fatty alcs. 9003-05-8, Polyacrylamide 9004-34-6D, Cellulose, derivs. 21482-16-6 24937-14-2,

Poly(β-alanine) 24991-23-9 25104-18-1 25513-34-2,
Poly(β-alanine) 25513-46-6, Poly(glutamic acid) 25608-40-6,
Poly(aspartic acid) 25618-55-7D, dodecyloxyalkyl ethers
25619-78-7, Polytyrosine **25667-16-7**, Polytyrosine
26063-13-8, Poly(aspartic acid) 34361-91-6, Tartraldehyde 38000-06-5
40031-31-0, Erythrulose 41672-81-5 129145-57-9
RL: BIOL (Biological study)
(cosmetic or pharmaceutical foams containing)

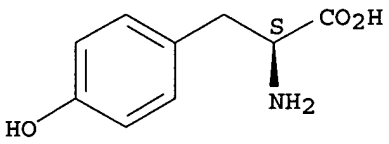
IT **25619-78-7**, Polytyrosine **25667-16-7**, Polytyrosine
RL: BIOL (Biological study)
(cosmetic or pharmaceutical foams containing)

RN 25619-78-7 HCAPLUS
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

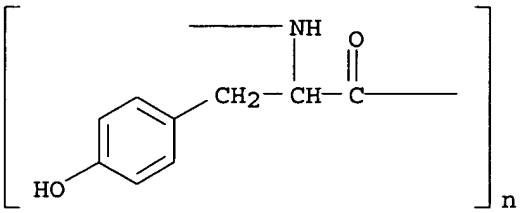
CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



RN 25667-16-7 HCAPLUS
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)



L23 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:466280 HCAPLUS
DN 105:66280
ED Entered STN: 23 Aug 1986
TI Cosmetics or pharmaceuticals containing a niosome and at least one water-soluble polyamide
IN Handjani, Rose Marie; Ribier, Alain; Vanlerberghe, Guy; Zabotto, Arlette; Griat, Jacqueline
PA **Oreal S. A. , Fr.**
SO Ger. Offen., 33 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM A61K009-08
ICS A61K007-00; A61K007-32; A61K007-40; A61K007-46; A61K031-00; A61K031-765; A61K031-785; A61K037-02; A61K037-22; A61K037-48;

A01N025-04
CC 62-6 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3537723	A1	19860424	DE 1985-3537723	19851023
	DE 3537723	C2	19890511		
	FR 2571963	A1	19860425	FR 1984-16312	19841024
	FR 2571963	B1	19870710		
	US 4830857	A	19890516	US 1985-789775	19851021
	BE 903509	A1	19860423	BE 1985-215773	19851023
	AU 8549006	A1	19860515	AU 1985-49006	19851023
	AU 580805	B2	19890202		
	NL 8502901	A	19860516	NL 1985-2901	19851023
	GB 2166107	A1	19860430	GB 1985-26284	19851024
	GB 2166107	B2	19880720		
	JP 61178909	A2	19860811	JP 1985-236540	19851024
	JP 04013322	B4	19920309		
	ES 548168	A1	19861116	ES 1985-548168	19851024
	CH 665772	A	19880615	CH 1985-4586	19851024
	CA 1273870	A1	19900911	CA 1985-493711	19851024
PRAI	FR 1984-16312	A	19841024		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 3537723	ICM	A61K009-08
	ICS	A61K007-00; A61K007-32; A61K007-40; A61K007-46; A61K031-00; A61K031-765; A61K031-785; A61K037-02; A61K037-22; A61K037-48; A01N025-04
US 4830857	NCL	424/450.000; 264/004.100; 264/004.600; 424/417.000; 428/402.200

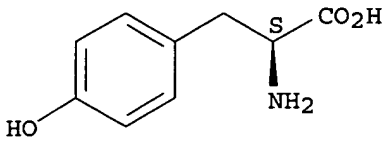
AB A composition for cosmetic or pharmaceutical use contains, in an aqueous medium,
2-10 weight% spherules of ≥1 nonionic amphiphilic lipid and (in the H2O phase) ≥1 H2O-soluble polyamide of mol. weight 1000-200,000 at 0.01-10% concentration relative to the total composition weight Thus, dry skin was
successfully treated in humans by topical application of a composition containing
an aqueous dispersion of niosomes (10,000 Å diameter; nonionic amphiphilic lipid [R-[OCH2CH(CH2OH)nOH; R = hexadecyl, n = average 3] 3.8, cholesterol 3.8, dicetyl phosphate 0.4, Me p-hydroxybenzoate 0.3, glycerol 3.0, H2O 35.5 g), aqueous (20%) poly-β-alanine (mol. weight 50,000) 7 and sesame oil 25 g (to make an oil-in-water emulsion), perfume 0.4, Carbopol 940 0.4, triethanolamine 0.4 and H2O (salt-free) 20 g.
ST niosome polyamide compn cosmetic pharmaceutical
IT Albumins, blood serum
Polyamides, biological studies
Protein hydrolyzates
Proteins
RL: BIOL (Biological study)
(cosmetic and pharmaceutical compns. containing niosomes and)
IT Collagens, compounds
Gelatins, compounds
RL: BIOL (Biological study)
(hydrolyzates, cosmetic and pharmaceutical compns. containing niosomes and)
IT Lactalbumins
RL: BIOL (Biological study)
(α-, cosmetic and pharmaceutical compns. containing niosomes and)

IT 9003-05-8 24937-14-2 24991-23-9 25104-18-1 25513-34-2 25513-46-6
25608-40-6 **25619-78-7 25667-16-7** 26063-13-8
38000-06-5
RL: BIOL (Biological study)
(cosmetic and pharmaceutical compns. containing niosomes and)
IT 51-35-4 56-81-5, uses and miscellaneous 57-88-5, biological studies
25322-68-3D, esters 25618-55-7D, esters
RL: BIOL (Biological study)
(niosomes containing, cosmetic and pharmaceutical compns. containing polyamides
and)
IT **25619-78-7 25667-16-7**
RL: BIOL (Biological study)
(cosmetic and pharmaceutical compns. containing niosomes and)
RN 25619-78-7 HCAPLUS
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

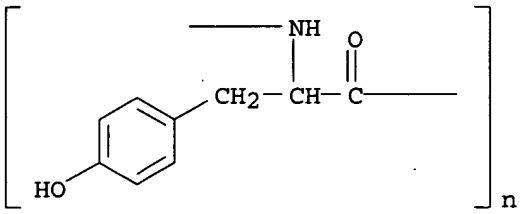
CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



RN 25667-16-7 HCAPLUS
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 16:04:14 ON 11 OCT 2005
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DICTIONARY FILE UPDATES: 10 OCT 2005 HIGHEST RN 864908-12-3

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

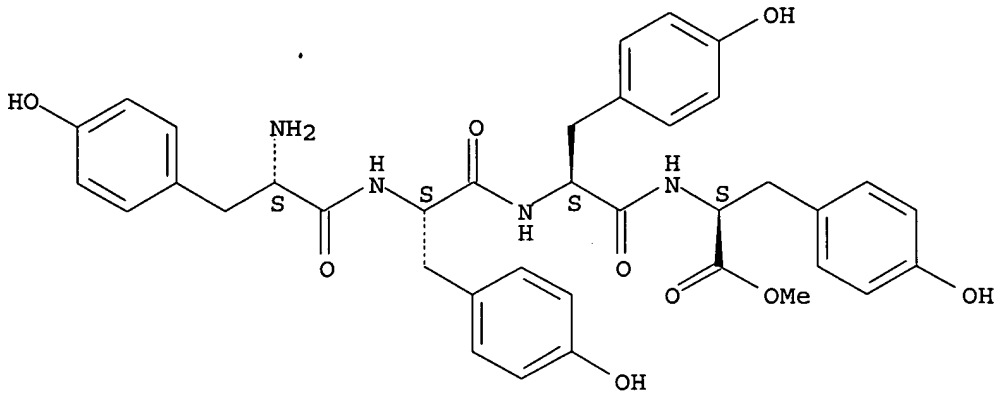
http://www.cas.org/ONLINE/UG/regprops.html

=> d ide can tot

L40 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
RN 801200-00-0 REGISTRY
ED Entered STN: 22 Dec 2004
CN **Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-, methyl ester, L-(8CI)** (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
MF **C37 H40 N4 O9**
CI COM
SR CA

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

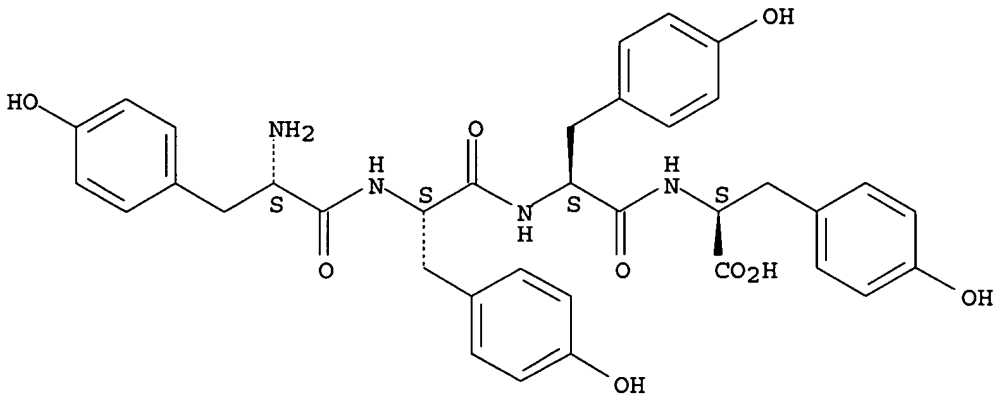


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L40 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
RN 64808-83-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN **L-Tyrosine, L-tyrosyl-L-tyrosyl-L-tyrosyl- (9CI)** (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **L-Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-**
FS PROTEIN SEQUENCE; STEREOSEARCH
MF **C36 H38 N4 O9**
CI COM
LC STN Files: CA, CAPLUS, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:122743

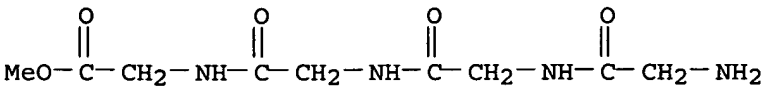
REFERENCE 2: 129:257340

REFERENCE 3: 118:229754

REFERENCE 4: 38:27136

L40 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
RN 13075-43-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN **Glycine, glycylglycylglycyl-, methyl ester (7CI, 9CI)** (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Glycine, N-[N-(N-glycylglycyl)glycyl]-, methyl ester (8CI)**
FS 3D CONCORD; PROTEIN SEQUENCE
MF **C9 H16 N4 O5**
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

RELATED SEQUENCES AVAILABLE WITH SEQLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:237598

REFERENCE 2: 131:322900

REFERENCE 3: 129:68017

REFERENCE 4: 127:140310

REFERENCE 5: 126:343849

REFERENCE 6: 79:19229

REFERENCE 7: 65:40212

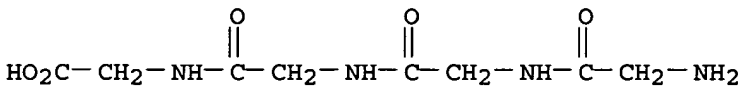
REFERENCE 8: 49:64475

REFERENCE 9: 46:66800

L40 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
RN 637-84-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN **Glycine, glycylglycylglycyl- (9CI)** (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[N-(N-glycylglycyl)glycyl]- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (Triglycyl)glycine
CN 10: PN: WO03093478 PAGE: 56 unclaimed sequence
CN 134: PN: JP2005002106 SEQID: 82 unclaimed protein
CN 1637: PN: WO2004024088 SEQID: 1640 claimed protein
CN 188: PN: US20040096926 SEQID: 211 unclaimed sequence
CN 1: PN: US20050181447 SEQID: 1 unclaimed sequence
CN 21: PN: WO0234909 SEQID: 22 unclaimed protein
CN 30: PN: US20030027247 SEQID: 30 unclaimed protein
CN 33: PN: FR2860236 PAGE: 10 claimed protein
CN 33: PN: US20050085417 SEQID: 33 unclaimed sequence
CN 36: PN: WO03087129 SEQID: 37 claimed protein
CN 40: PN: FR2860237 SEQID: 28 unclaimed protein
CN 4: PN: WO0035952 SEQID: 4 unclaimed protein
CN 6: PN: WO02057435 PAGE: 9 unclaimed sequence
CN 73: PN: WO2004026329 SEQID: 284 unclaimed protein
CN Gly4
CN Glycine tetrapeptide
CN **Glycylglycylglycylglycine**
CN H-Gly-Gly-Gly-Gly-OH

CN NSC 89178
CN Tetraglycine
FS 3D CONCORD; PROTEIN SEQUENCE
DR 115921-30-7
MF **C8 H14 N4 O5**
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

RELATED SEQUENCES AVAILABLE WITH SEQLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

580 REFERENCES IN FILE CA (1907 TO DATE)
64 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
580 REFERENCES IN FILE CAPLUS (1907 TO DATE)
34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:222558

REFERENCE 2: 143:173125

REFERENCE 3: 142:417150

REFERENCE 4: 142:409953

REFERENCE 5: 142:349061

REFERENCE 6: 142:349018

REFERENCE 7: 142:329887

REFERENCE 8: 142:296757

REFERENCE 9: 142:240703

REFERENCE 10: 142:238639

=> => d ide can tot

L43 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 134982-28-8 REGISTRY
ED Entered STN: 19 Jul 1991
CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
MF C8 H14 N4 O5 . C2 H F3 O2

SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

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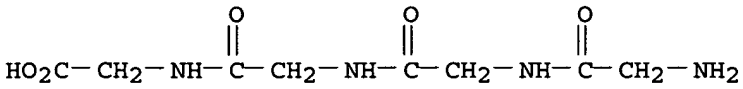
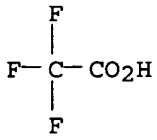
CRN 637-84-3
CMF C8 H14 N4 O5

RELATED SEQUENCES AVAILABLE WITH SEQLINK



CM 2

CRN 76-05-1
CMF C2 H F3 O2



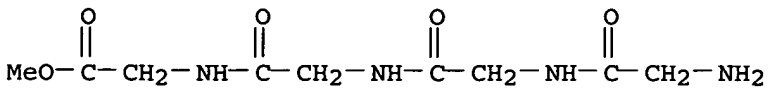
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:92885

L43 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 84015-45-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, glycylglycylglycyl-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, methyl ester, monohydrochloride
FS PROTEIN SEQUENCE
MF C9 H16 N4 O5 . Cl H
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
CRN (13075-43-9)

RELATED SEQUENCES AVAILABLE WITH SEQLINK



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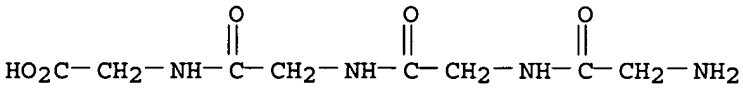
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 98:34937

L43 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 38495-13-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, hydrochloride (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Tetraglycine hydrochloride
FS PROTEIN SEQUENCE
MF C8 H14 N4 O5 . x Cl H
LC STN Files: CA, CAPLUS
CRN (637-84-3)

RELATED SEQUENCES AVAILABLE WITH SEQLINK



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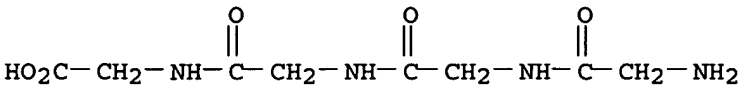
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 77:148820

L43 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 38126-71-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, monohydrochloride (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Tetraglycine hydrochloride
FS PROTEIN SEQUENCE
MF C8 H14 N4 O5 . Cl H
LC STN Files: CA, CAPLUS
CRN (637-84-3)

RELATED SEQUENCES AVAILABLE WITH SEQLINK



● HCl

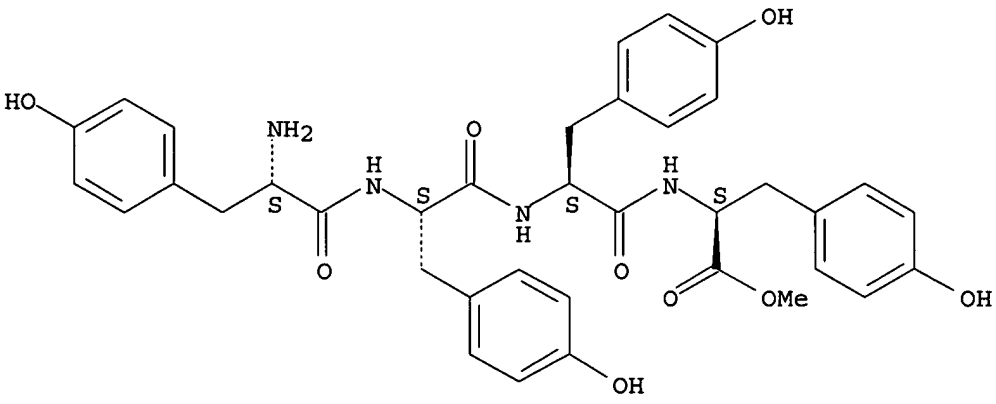
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 77:152548

L43 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 27538-63-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-, methyl ester, monohydrochloride, L- (8CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
MF C37 H40 N4 O9 . Cl H
LC STN Files: CA, CAPLUS
CRN (801200-00-0)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 73:15215

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FILE 'HCAPLUS' ENTERED AT 16:09:30 ON 11 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

FILE COVERS 1907 - 11 Oct 2005 VOL 143 ISS 16
FILE LAST UPDATED: 10 Oct 2005 (20051010/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot

L55 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:389084 HCAPLUS
DN 129:58620
ED Entered STN: 25 Jun 1998
TI Dentifrice compositions containing peptides as endotoxin neutralizing agents
IN Sasaki, Shuji
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-16
CC **62-7** (Essential Oils and **Cosmetics**)
Section cross-reference(s): 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10158131	A2	19980616	JP 1996-330350	19961126
PRAI JP 1996-330350		19961126		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 10158131	ICM	A61K007-16

AB The compns. contain amino acids or di, tri-, or tetrapeptides comprising Gly, Ala, Leu, His, and/or Pro as neutralizing agents for endotoxins of periodontal disease bacteria. The compns. are used in the forms of toothpastes, mouthwashes, confectioneries such as candies, chewing gums, etc. L-Leucylglycylglycine (I) showed 50.9% inhibition against Actinobacillus actinomycetemcomitans Y4 LPS. A toothpaste containing I was also formulated.
ST dentifrice glycine peptide Actinomycetes endotoxin neutralizer; oligopeptide periodontal disease endotoxin neutralizer dentifrice; Porphyromonas endotoxin neutralizer oligopeptide dentifrice
IT Chewing gum
(anticariogenic dentifrices; dentifrices containing specific amino acids or

oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Candy
Mouthwashes
Mouthwashes
(anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT **Dentifrices**
Dentifrices
(chewing gums, anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Antibacterial agents
Dentifrices
Haemophilus actinomycetemcomitans
Porphyromonas gingivalis
(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Amino acids, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Chewing gum
(dentifrices, anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Periodontium
(disease; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Toxins
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(endotoxins; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Drug delivery systems
(ointments, oral; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

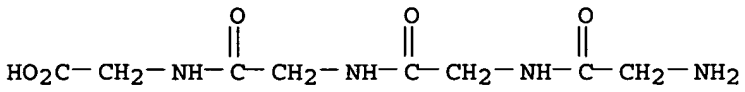
IT Peptides, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oligopeptides; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT 61-90-5, L-Leucine, biological studies 71-00-1, L-Histidine, biological studies 556-50-3, Glycylglycine **637-84-3**, Glycylglycylglycylglycine 686-50-0, L-Leucylglycine 704-15-4, Glycyl-L-proline 869-19-2, Glycyl-L-leucine 1187-50-4, L-Leucylglycylglycine 2867-20-1, DL-Alanyl-DL-alanine 7298-84-2, L-Leucyl-L-alanine 7451-76-5, Glycylglycyl-L-histidine 7763-65-7, L-Histidyl-L-leucine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT **637-84-3**, Glycylglycylglycylglycine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

RN 637-84-3 HCAPLUS
CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)



L55 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:686891 HCAPLUS
DN 123:93387
ED Entered STN: 20 Jul 1995
TI Peptides as antibacterial agents
IN Bhakoo, Manmohan
PA Unilever PLC, UK; Unilever N. V.
SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K031-785
ICS C08G069-10
CC 63-8 (Pharmaceuticals)
Section cross-reference(s): 17, **62**

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9509638	A1	19950413	WO 1994-EP3234	19940928
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2169084	AA	19950413	CA 1994-2169084	19940928
	AU 9478106	A1	19950501	AU 1994-78106	19940928
	AU 695290	B2	19980813		
	EP 722327	A1	19960724	EP 1994-928834	19940928
	EP 722327	B1	20001122		
	R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
	HU 74379	A2	19961230	HU 1996-873	19940928
	BR 9407770	A	19970318	BR 1994-7770	19940928
	JP 09503216	T2	19970331	JP 1994-510597	19940928
	ES 2153861	T3	20010316	ES 1994-928834	19940928
	JP 3162078	B2	20010425	JP 1995-510597	19940928
	US 5629282	A	19970513	US 1994-317275	19941004
	ZA 9407788	A	19960409	ZA 1994-7788	19941005
PRAI	GB 1993-20443	A	19931005		
	GB 1993-25839	A	19931217		
	WO 1994-EP3234	W	19940928		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9509638	ICM	A61K031-785

ICS C08G069-10
WO 9509638 ECLA A61K031/785; C08G069/10
US 5629282 NCL 514/002.000; 134/025.300; 422/032.000; 424/054.000; 426/335.000; 426/532.000; 528/328.000; 530/300.000; 530/350.000

AB Antibacterial agents are identified as peptides having a mol. weight ≥5 kD, comprising ≥15% by number of residues of arginine, lysine, ornithine or a mixture thereof and ≥15% by number of residues of arginine, lysine, ornithine, phenylalanine, tyrosine, tryptophan or a mixture thereof. Although the invention is described with reference to use in the fields of food and oral hygiene, the invention has particular utility in the field of household and/or industrial hygiene. Antibacterial compns. further contain nonionic surfactants. For example, an antibacterial activity of Arg-Trp copolymer (31kD) was tested with Staphylococcus aureus, Escherichia coli, and Pseudomonas aeruginosa.

ST peptide surfactant bactericide

IT Bactericides, Disinfectants, and Antiseptics
Food
Surfactants
(antibacterial compns. containing peptides and surfactants)

IT Peptides, biological studies
RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(antibacterial compns. containing peptides and surfactants)

IT 151-21-3, Sodium dodecyl sulfate, biological studies 9005-65-6, Tween 80 9083-53-8, Triton 24937-47-1, Polyarginine 24937-49-3, Polyornithine 25104-12-5, Polyornithine 25104-18-1, Polylysine 25191-13-3, Polyproline 25212-18-4, Polyarginine 25213-33-6, Polyproline **25619-78-7**, Polytyrosine **25667-16-7**, Polytyrosine 25821-52-7, Polyserine 25821-94-7, Polyserine 26062-48-6, Polyhistidine 26700-39-0 26701-37-1 26854-81-9, Polyhistidine 27456-64-0 27813-82-7, Polytryptophan 29796-29-0 29861-38-9 30425-11-7 31325-38-9 31325-39-0 33540-31-7, Polytryptophan 38000-06-5, Polylysine 107408-09-3 108820-26-4 131601-01-9 165123-98-8 165123-99-9 165305-40-8 165455-84-5
RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(antibacterial compns. containing peptides and surfactants)

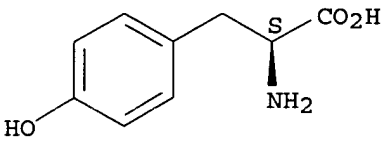
IT **25619-78-7**, Polytyrosine **25667-16-7**, Polytyrosine
RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(antibacterial compns. containing peptides and surfactants)

RN 25619-78-7 HCAPLUS
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

CM 1

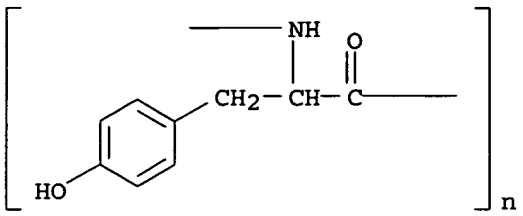
CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



RN 25667-16-7 HCAPLUS

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)



L55 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1994:23568 HCAPLUS
DN 120:23568
ED Entered STN: 22 Jan 1994
TI Remedy for dermatopathy and metallothionein induction
IN Otsu, Yoshiro; Arima, Yaeno; Nakajima, Katsuyuki; Adachi, Masakazu; Muramatsu, Tsutomu; Hanada, Katsumi
PA Otsuka Pharmaceutical Co., Ltd., Japan; Japan Immunoresearch Laboratories Co., Ltd.
SO PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM A61K031-12
ICS A61K031-19; A61K031-195; A61K031-44; A61K037-02
CC 1-12 (Pharmacology)
Section cross-reference(s): 27, **62**, 63
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9314748	A1	19930805	WO 1993-JP130	19930203
	W: AU, CA, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2107461	AA	19930804	CA 1993-2107461	19930203
	AU 9334629	A1	19930901	AU 1993-34629	19930203
	AU 667704	B2	19960404		
	EP 583479	A1	19940223	EP 1993-903301	19930203
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	US 5582817	A	19961210	US 1993-122585	19931001
PRAI	JP 1992-17612	A	19920203		
	JP 1992-113633	A	19920506		
	JP 1992-325633	A	19921204		
	JP 1992-348618	A	19921228		
	WO 1993-JP130	A	19930203		

CLASS

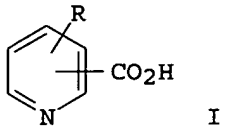
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9314748	ICM	A61K031-12
	ICS	A61K031-19; A61K031-195; A61K031-44; A61K037-02
AU 9334629	ECLA	A61K008/26; A61K008/35; A61K008/368; A61K008/44; A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315; A61K031/40; A61K031/405; A61K031/415; A61K031/44; A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00
EP 583479	ECLA	A61K008/26; A61K008/35; A61K008/368; A61K008/44; A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315;

A61K031/40; A61K031/405; A61K031/415; A61K031/44;
A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00

US 5582817 NCL 424/059.000; 514/188.000; 514/494.000; 546/005.000
ECLA A61K008/26; A61K008/35; A61K008/368; A61K008/44;
A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315;
A61K031/40; A61K031/405; A61K031/415; A61K031/44;
A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00

OS MARPAT 120:23568

GI



I

AB A zinc salt, a zinc complex or a zinc complex salt of a compound selected from among a pyridine-carboxylic acid represented by general formula (I) (R = H, OH, nitro, halo, etc.], nicotinamide, picolinamide, 3,4-dihydroxybenzoic acid, an amino acid, a peptide and hinokitiol has the effects of inducing metallothionein and inhibiting sunburn cell production, thus being useful as a **cosmetic** or medicine for treating or preventing sunburn and treating dermatopathy, radiation damage, etc. Bis(2,5-pyridinedicarboxylate)zinc(II) di-Na salt (II) was prepared by treating 2,5-pyridinedicarboxylic acid with Na2CO3 and zinc acetate. II (1% solution) applied topically to UV-irradiated hairless mice prevented the UV radiation damage. Pharmaceutical and **cosmetic** formulation are given.

ST zinc pyridinecarboxylate dermatopathy treatment; radiation damage control zinc pyridinecarboxylate; sunburn treatment zinc pyridinecarboxylate

IT Radiation
(damage by, treatment of, with zinc pyridinecarboxylate or other zinc compds., metallothionein induction in relation to)

IT Metallothioneins
RL: PRP (Properties)
(induction of, with zinc pyridinecarboxylate or other zinc compds.)

IT Skin, disease
Sunburn and Suntan
(treatment of, with zinc pyridinecarboxylate or other zinc compds., metallothionein induction in relation to)

IT **Sunscreens**
(zinc pyridinecarboxylate or zinc compds. as)

IT Peptides, biological studies
RL: BIOL (Biological study)
(zinc salts, as metallothionein inducers and sunburn inhibitors)

IT Pharmaceutical dosage forms
(ointments, of zinc compds., for dermatopathy)

IT Pharmaceutical dosage forms
(tablets, of zinc compds., for dermatopathy)

IT Amino acids, compounds
RL: BIOL (Biological study)
(zinc salts, as metallothionein inducers and sunburn inhibitors)

IT 52-90-4D, L-Cysteine, zinc complexes 70-18-8D, zinc complexes 72-19-5D, L-Threonine, zinc complexes 80-68-2D, DL-Threonine, zinc complexes 305-84-0D, zinc complexes 556-33-2D, zinc complexes 556-50-3D, zinc complexes 632-20-2D, D-Threonine, zinc complexes **637-84-3D**, zinc complexes 921-01-7D, D-Cysteine, zinc complexes

1187-50-4D, zinc complexes 3146-40-5D, zinc complexes 3374-22-9D, DL-Cysteine, zinc complexes 4294-25-1D, zinc complexes 7440-66-6D, Zinc, complexes with amino acids and peptides 14221-52-4 14281-83-5
14647-06-4 14877-93-1 15276-22-9 15281-32-0 15523-09-8
15740-03-1 15975-28-7 16037-56-2 16561-87-8 21752-10-3
23333-98-4 23333-99-5 28143-32-0 31034-38-5 32594-06-2
32594-07-3 34992-53-5 36393-20-1 40816-51-1 40816-53-3
51147-98-9 53446-41-6 64364-41-6 68107-75-5 75598-18-4
77340-82-0 77448-68-1 77519-24-5 102519-27-7 112983-87-6
138641-21-1 151110-84-8 151138-11-3 151138-13-5 151138-14-6
151138-15-7 151138-16-8 151138-17-9 151165-54-7 151165-55-8
151214-06-1 151214-07-2 151214-08-3 151214-09-4 151214-27-6
151214-86-7 151214-87-8 151214-88-9 151214-89-0 151214-90-3
151214-91-4 151214-92-5 151214-93-6 151214-94-7 151214-95-8
151214-96-9 151214-97-0 152005-29-3
RL: BIOL (Biological study)
(as metallothionein inducer and sunburn inhibitor)

IT 98-92-0D, Nicotinamide, compds. 99-50-3D, 3,4-Dihydroxybenzoic acid, compds. 499-44-5D, compds. 1452-77-3D, Picolinamide, compds. 7440-66-6D, Zinc, compds. 32075-31-3D, Pyridinecarboxylic acid, compds.
RL: BIOL (Biological study)
(as metallothionein inducers and sunburn inhibitors)

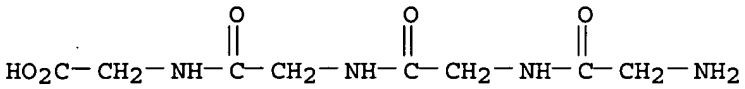
IT 3473-03-8P 17949-65-4P 151041-61-1P 151282-38-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as metallothionein inducer and sunburn inhibitor)

IT 51914-60-4P, Zinc nicotinate 151041-62-2P 151165-56-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as sunburn inhibitor and metallothionein inducer)

IT 59-67-6, Nicotinic acid, reactions 71-00-1, L-Histidine, reactions 98-92-0, Nicotinamide 99-50-3, 3,4-Dihydroxybenzoic acid 100-26-5, 2,5-Pyridinedicarboxylic acid 1452-77-3, Picolinamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, for sunburn inhibitor and metallothionein inducer preparation)

IT **637-84-3D**, zinc complexes
RL: BIOL (Biological study)
(as metallothionein inducer and sunburn inhibitor)

RN 637-84-3 HCAPLUS
CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)



L55 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:433430 HCAPLUS
DN 117:33430
ED Entered STN: 26 Jul 1992
TI Peptide-modified silicones as **cosmetic** ingredients
IN Yoshioka, Masato; Kamimura, Yoichi
PA Seiwa Oil and Chemetics Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-00
ICS A61K007-06
CC **62-4** (Essential Oils and **Cosmetics**)

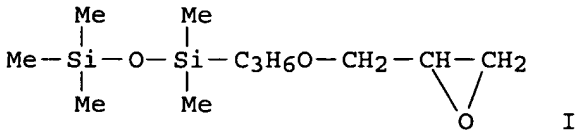
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03223207	A2	19911002	JP 1990-19939	19900129
	JP 2748174	B2	19980506		
PRAI	JP 1990-19939		19900129		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 03223207	ICM	A61K007-00
	ICS	A61K007-06

GI



I

AB Bases for manufacturing skin on hair prepns. contain peptide-modified silicone derivs. to smoothen the skin and to soften and luster the hair. Thus, collagen peptide (mol. weight .apprx.3000) was reacted with I to give the product. A base for manufacturing skin and hair prepns. contained the above product 2.0, keratin hydrolyzate 3.0, polyoxyethylene lauryl ether 1.0, 99% EtOH 8%, perfumes q.s., and balance sterilized water.

ST base **cosmetic** peptide silicone; skin **cosmetic** base peptide silicone; hair prepn base peptide silicone

IT **Cosmetics**
Hair preparations
Shampoos
(bases for, peptide-modified silicone-containing)

IT **Cosmetics**
(creams, bases for, peptide-modified silicone-containing)

IT **Cosmetics**
(depilatories, bases for, peptide-modified silicone-containing)

IT **Cosmetics**
(face masks, bases for, peptide-modified silicone-containing)

IT Collagens, compounds
RL: PREP (Preparation)
(hydrolyzates, reaction products, with silicones, preparation of, as bases for hair prepns. and skin **cosmetics**)

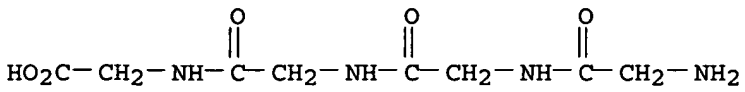
IT Siloxanes and Silicones, compounds
RL: PREP (Preparation)
(reaction products, with peptides, preparation of, as bases for hair prepns. and skin **cosmetics**)

IT Peptides, compounds
RL: PREP (Preparation)
(reaction products, with silicones, preparation of, as bases for hair prepns. and skin **cosmetics**)

IT **Hair preparations**
(wave-setting, bases for, peptide-modified silicone-containing)

IT 56-45-1DP, Serine, reaction products with silicones 56-89-3DP, Cystine, reaction products with silicones 74-79-3DP, Arginine, reaction products with silicones 147-85-3DP, Proline, reaction products with silicones **637-84-3DP**, Glycylglycylglycylglycine, reaction products with silicones 138965-24-9DP, reaction products with peptides
RL: PREP (Preparation)

(preparation of, as bases for hair prepns. and skin **cosmetics**)
IT **637-84-3DP**, Glycylglycylglycylglycine, reaction products with silicones
RL: PREP (Preparation)
(preparation of, as bases for hair prepns. and skin **cosmetics**)
RN 637-84-3 HCAPLUS
CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)



L55 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1982:148999 HCAPLUS
DN 96:148999
ED Entered STN: 12 May 1984
TI Sulfonated polyamino acids as dental plaque barriers
IN Sipos, Tibor
PA Johnson and Johnson Products, Inc., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
IC A61K007-16; C07C103-52
INCL 424056000
CC **62-7** (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4314991	A	19820209	US 1980-172353	19800725
ZA 8107824	A	19830629	ZA 1981-7824	19811111
EP 79406	A1	19830525	EP 1981-305367	19811112
R: AT, CH, DE, GB, IT, LI				
CA 1176795	A1	19841023	CA 1981-389866	19811112
JP 58093725	A2	19830603	JP 1981-189392	19811127
PRAI US 1980-172353		19800725		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 4314991	IC	A61K007-16IC C07C103-52
	INCL	424056000
US 4314991	NCL	424/056.000; 530/324.000; 530/350.000; 930/021.000; 930/290.000

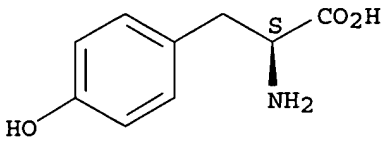
AB Sulfonated polyamino acids or their salts are useful for preventing the attachment of dental plaque to the teeth surface and can be applied using dentifrices, mouthwashes or other formulations. Thus poly(L-phenylalanine)sulfonic acid was prepared by the treatment of poly(L-phenylalanine) with liquid SO3 dissolved in a solution of tri-Et phosphate in CH2Cl2. This was then converted to the Na salt. The degree of sulfonation was 0.8 based on the amount of alkali consumed in the neutralization step. Mouthwashes and dentifrices are prepared containing polyamino acid sulfonates.
ST polyamino acid sulfonate dental plaque
IT Polyamides, compounds
RL: BIOL (Biological study)
(Ph group-containing, sulfonated, salts, dental plaque barriers, for dentifrices and mouthwashes)

IT Chewing gum
Dentifrices
Mouthwashes
(polyamino acid sulfonates as dental plaque barriers for)
IT Amino acids, polymers
RL: BIOL (Biological study)
(polymers, sulfonated, salts, dental plaque barriers, for dentifrices and mouthwashes)
IT 25035-14-7D, sulfonated, salts 25191-15-5D, sulfonated, salts
25248-59-3D, sulfonated, salts **25619-78-7D**, sulfonated, salts
25667-16-7D, sulfonated, salts 30394-07-1D, sulfonated, salts
RL: BIOL (Biological study)
(dental plaque barrier agent, for dentifrices and mouthwashes)
IT **25619-78-7D**, sulfonated, salts **25667-16-7D**, sulfonated, salts
RL: BIOL (Biological study)
(dental plaque barrier agent, for dentifrices and mouthwashes)
RN 25619-78-7 HCAPLUS
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

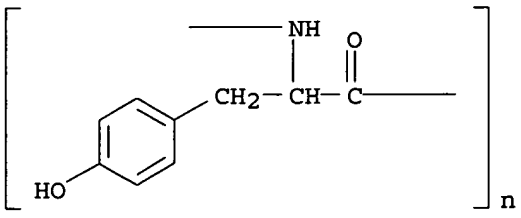
CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



RN 25667-16-7 HCAPLUS
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 15:33:42 ON 11 OCT 2005)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:33:52 ON 11 OCT 2005
L1 1 S US20020155991/PN OR (US2002-086451# OR FR2001-2979)/AP,PRN
E PHILIPPE M/AU
L2 326 S E3-E5,E25-E27

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                E PHILIPE M/AU
                E PHILLIPPE M/AU
L3           14 S E3-E5,E8
                E PHILLIPE M/AU
                E BENARD S/AU
L4           15 S E3,E7
L5         4933 S (OREAL? OR LOREAL? OR L()OREAL?)/PA,CS
                SEL RN L1

     FILE 'REGISTRY' ENTERED AT 15:36:07 ON 11 OCT 2005
L6            8 S E1-E8
                SEL RN 5-8
L7            4 S L6 NOT E9-E12
L8            3 S (D-TYROSINE OR L-TYROSINE OR DL-TYROSINE)/CN
                SEL RN
L9          335 S E13-E15/CRN
L10         146 S L9 AND PMS/CI
L11           1 S L10 AND CH4O
L12          43 S C3H7NO2 AND L10
L13           2 S L12 NOT ALANINE
L14           4 S L10 AND C2H5NO2
L15           6 S L10 AND C9H11NO3 AND 1/NC
L16          43 S L10 AND 2/NC
L17          54 S L10 NOT L11-L16
                E (C9H9NO2)/MF
L18          17 S E5
                SEL RN 14 15 17
L19           3 S E1-E3
                E (C9H9NO2)/MF
L20           2 S E6,E7
L21          12 S L11,L13,L15,L19

     FILE 'HCAPLUS' ENTERED AT 15:53:55 ON 11 OCT 2005
L22         265 S L21
L23           4 S L22 AND L1-L5

     FILE 'REGISTRY' ENTERED AT 15:54:33 ON 11 OCT 2005

     FILE 'HCAPLUS' ENTERED AT 15:54:41 ON 11 OCT 2005
                SEL RN L23

     FILE 'REGISTRY' ENTERED AT 15:55:16 ON 11 OCT 2005
L24          42 S E1-E50 NOT L6
L25          40 S L24 NOT L21
                E C8H14N4O5/MF
L26          66 S E3
                E C9H16N4O5/MF
L27          59 S E3
L28         125 S L26,L27
L29          61 S L28 AND NR>=1
L30          64 S L28 NOT L29
L31           3 S L30 AND METHYL ESTER
L32           8 S L30 AND GLYCYLGLYCYLGLYCYL
L33           8 S L31,L32 NOT D/ELS
L34           6 S L33 NOT ALANINE
                SEL RN 1-4
L35           2 S L34 NOT E1-E4
                E C36H38N4O9/MF
L36           9 S E3 AND 46.150.18/RID AND 4/NR
L37           1 S L36 AND TYROSYL
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                E C37H40N4O9/MF
L38           2 S  E3 AND 46.150.18/RID AND 4/NR
L39           1 S L38 AND TYROSYL
L40           4 S L35,L37,L39

     FILE 'REGISTRY' ENTERED AT 16:04:14 ON 11 OCT 2005
                SEL RN
L41          17 S E1-E4/CRN
L42           6 S L41 NOT (CONJUGATE OR MXS/CI OR COMPD)
L43           5 S L42 NOT ALANINE
L44           9 S L40,L43
                SAV L44 GEORGE086/A
                SAV L21 GEORGE086A/A

     FILE 'HCAPLUS' ENTERED AT 16:06:38 ON 11 OCT 2005
L45           0 S L44 AND L1-L5
L46         858 S L44,L22
L47           9 S L46 AND COSMETIC?/SC,SX,CW,CT,BI
L48           1 S L46 AND ?WRINKL?
L49           9 S L47,L48
L50           1 S L46 (L) COS/RL
L51           9 S L49,L50
L52          12 S L46 AND COSMETICS+OLD,NT,PFT,RT/CT
L53          14 S L51,L52
L54          10 S L53 NOT L23
L55           5 S L54 AND 62/SC,SX

     FILE 'HCAPLUS' ENTERED AT 16:09:30 ON 11 OCT 2005

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